

# **A Study of AK104 (an Anti-PD1 and Anti-CTLA4 Bispecific Antibody) combined with standard therapy for the first-line treatment of recurrent or metastatic cervical cancer(R/M CC)**

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# Background

- Platinum-based chemotherapy+/-bevacizumab has been widely used as standard first-line treatment for R/M CC. <sup>1</sup>
- Pembrolizumab plus chemotherapy+/-bevacizumab was newly approved by FDA to treat R/M CC patients with CPS  $\geq 1$  (Keynote 826, ORR: 68% and PFS: 10.4 months in pembrolizumab group).<sup>2</sup>
- AK104 is a bispecific antibody targeting PD1 and CTLA4. AK104 monotherapy has shown promising efficacy and tolerable toxicity in pre-treated R/M CC, with ORR of 33.0% and mPFS of 3.75 months (NCT04380805).<sup>3</sup>
- In this study, we reported the efficacy and safety of AK104 in combination with platinum-based chemotherapy+/-bevacizumab for the first line treatment of R/M CC (NCT04868708).

1. NCCN guideline 2021.

2. Colombo N, et al. N Engl J Med. 2021 Nov 11;385(20):1856-1867.

3. Xiaohua Wu, et al. SGO 2022 oral presentation.

# AK104-210 Study Design

A Multi-center, Open-label, Phase II study to evaluate safety and efficacy of AK104 in combination with platinum-based chemotherapy +/- bevacizumab in first-line treatment of R/M cervical cancer.

## Key Eligibility Criteria:

- Recurrent or metastatic cervical cancer not amenable to curative treatment
- Histology types include: squamous cell carcinoma, adenocarcinoma, or adenosquamous cell carcinoma
- No prior systemic chemotherapy
- ECOG PS 0-1  
N=45

## Cohort A-15 (n=15):

AK104 15mg/kg IV Q3W +  
Paclitaxel + Cisplatin or Carboplatin IV Q3W<sup>a</sup>

## Cohort A-10 (n=15):

AK104 10mg/kg IV Q3W +  
Paclitaxel + Cisplatin or Carboplatin IV Q3W<sup>a</sup>

## Cohort B-10 (n=15):

AK104 10mg/kg IV Q3W +  
Paclitaxel + Cisplatin or Carboplatin IV Q3W<sup>a</sup>  
+ Bevacizumab 15 mg/kg IV Q3W

<sup>a</sup>Paclitaxel: 175 mg/m<sup>2</sup>, Cisplatin: 50 mg/m<sup>2</sup>, Carboplatin: AUC 5 mg/mL/min.  
ClinicalTrials.gov, NCT04868708.

## Treatment until:

- Disease progression
- Unacceptable toxicity
- Withdrawal of consent

## End Points:

- Primary end point: safety
- Secondary end points: ORR, DOR, DCR, PFS per RECIST1.1 by investigator and OS, PK/PD, ADA, etc.

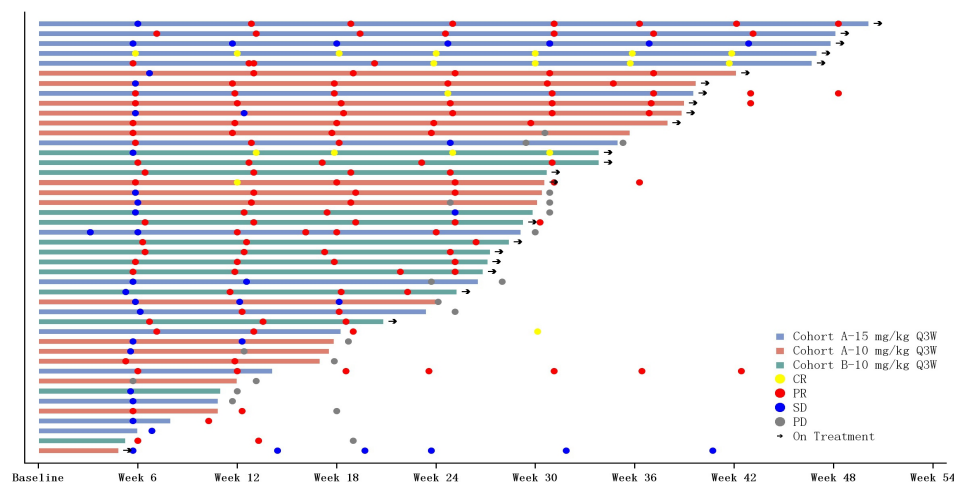
# Baseline characteristics

	Total (N=45)	A-15 (N=15)	A-10 (N=16)	B-10 (N=14)
<b>Age, median (range)</b>	52.4 (33, 71)	52.4 (35, 67)	55.9 (39, 69)	50.8 (33, 71)
<b>ECOG PS 1, n (%)</b>	26 (57.8)	10 (66.7)	12 (75.0)	4 (28.6)
<b>Squamous cell carcinoma, n (%)</b>	39 (86.7)	11 (73.3)	15 (93.8)	13 (92.9)
<b>Stage at initial diagnosis (FIGO 2018), n (%)</b>				
I	11 (24.4)	4 (26.7)	5 (31.3)	2 (14.3)
II	8 (17.8)	5 (33.3)	2 (12.5)	1 (7.1)
IIIB	4 (8.9)	1 (6.7)	3 (18.8)	0
IIIC	14 (31.1)	4 (26.7)	3 (18.8)	7 (50.0)
IVA	1 (2.2)	0	1 (6.3)	0
IVB	7 (15.6)	1 (6.7)	2 (12.5)	4 (28.6)
<b>Disease status, n (%)</b>				
Recurrent without distant metastases	12 (26.7)	4 (26.7)	5 (31.3)	3 (21.4)
Metastatic	33 (73.3)	11 (73.3)	11 (68.8)	11 (78.6)
<b>PD-L1 CPS, n (%)</b>				
<1	17 (37.8)	5 (33.3)	8 (50.0)	4 (28.6)
1 to <10	15 (33.3)	5 (33.3)	4 (25.0)	6 (42.9)
≥10	13 (28.9)	5 (33.3)	4 (25.0)	4 (28.6)
<b>Prior therapy, n (%)</b>				
Surgery only	5 (11.1)	2 (13.3)	2 (12.5)	1 (7.1)
Chemoradiation or radiation only	19 (42.2)	5 (33.3)	8 (50.0)	6 (42.9)
Chemoradiation or radiation with surgery	14 (31.1)	7 (46.7)	4 (25.0)	3 (21.4)
None	7 (15.6)	1 (6.7)	2 (12.5)	4 (28.6)

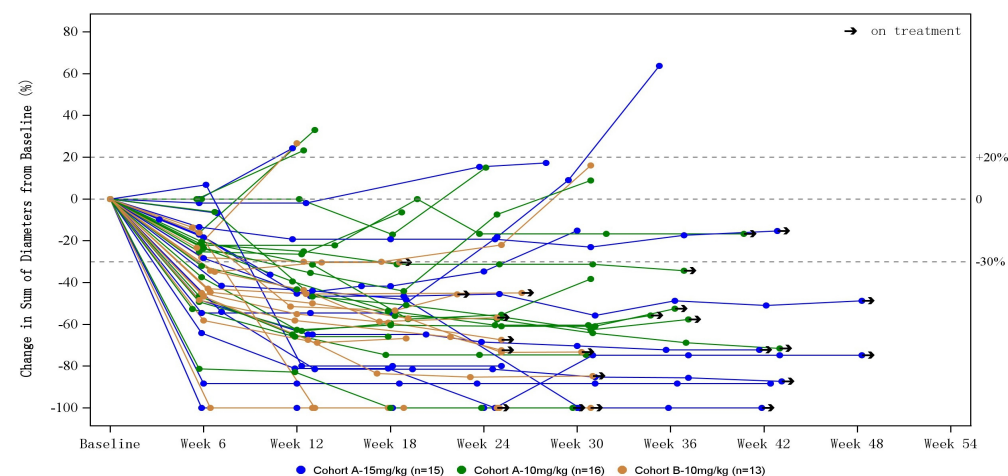
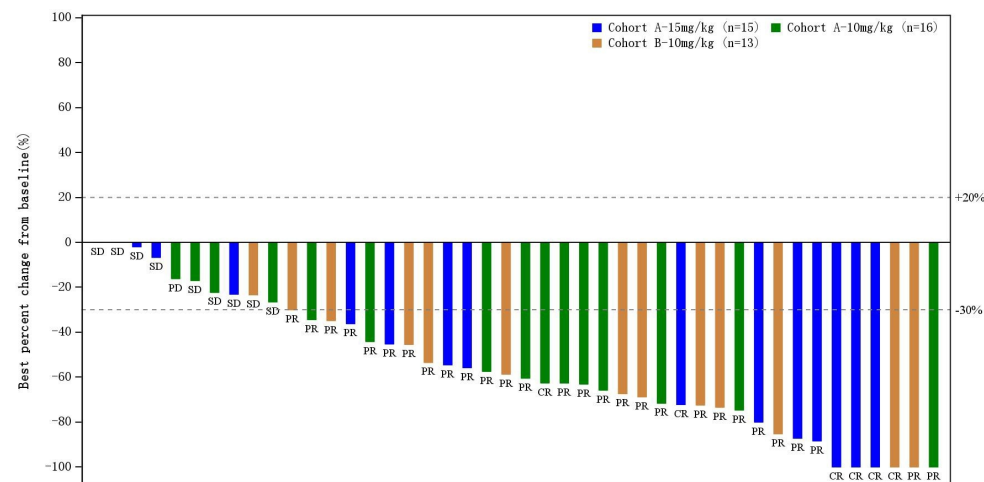
Data cutoff date: Apr 18, 2022

# Efficacy

Confirmed ORR was 66.7%, 68.8% and 92.3% in A-15, A-10 and B-10, respectively (Per RECIST1.1).



	A-15 (N=15)	A-10 (N=16)	B-10 (N=13) <sup>a</sup>	A-10+B-10 (N=29)
Objective Response Rate, n(%)	10 (66.7)	11 (68.8)	12 (92.3)	23 (79.3)
Disease Control Rate, n (%)	15 (100.0)	15 (93.8)	13 (100.0)	28 (96.6)
Best Overall Response, n(%)				
Complete Response	2 (13.3)	0 (0.0)	1 (7.7)	1 (3.4)
Partial Response	8 (53.3)	11 (68.8)	11 (84.6)	22 (75.9)
Stable Disease	5 (33.3)	4 (25.0)	1 (7.7)	5 (17.2)
Progressive Disease	0	1 (6.3)	0	1 (3.4)
Median DoR, [95%CI], months	NR (2.99, NE)	5.75 (2.86, NE)	NR (3.02, NE)	NR (4.27, NE)
Median TTR, (range), months	1.51(1.31,2.96)	1.35(1.22,4.24)	1.48(1.31,3.02)	1.48(1.22,4.24)



Data cutoff date: 18 Apr 2022.  
<sup>a</sup>One patient died before first tumor assessment.

# Efficacy

Benefit was favorable regardless of CPS status.

	A-15		A-10		B-10		A-10+B-10	
	CPS $\geq$ 1 (N=10)	CPS<1 (N=5)	CPS $\geq$ 1 (N=8)	CPS<1 (N=8)	CPS $\geq$ 1 (N=9)	CPS<1 (N=4)	CPS $\geq$ 1 (N=17)	CPS<1 (N=12)
Objective Response Rate, n(%)	7 (70.0)	3 (60.0)	6 (75.0)	5 (62.5)	8 (88.9)	4 (100.0)	14 (82.4)	9 (75.0)
Disease Control Rate, n (%)	10 (100.0)	5 (100.0)	8 (100.0)	7 (87.5)	9 (100.0)	4 (100.0)	17 (100.0)	11 (91.7)
<b>Best Overall Response, n(%)</b>								
Complete Response	2 (20.0)	0	0 (0.0)	0	1 (11.1)	0	1 (5.9)	0
Partial Response	5 (50.0)	3 (60.0)	6 (75.0)	5 (62.5)	7 (77.8)	4 (100.0)	13 (76.5)	9 (75.0)
Stable Disease	3 (30.0)	2 (40.0)	2 (25.0)	2 (25.0)	1 (11.1)	0	3 (17.6)	2 (16.7)
Progressive Disease	0	0	0	1 (12.5)	0	0	0	1 (8.3)

Data cutoff date: 18 Apr 2022.

# Safety Overview

	Total (N=45)	A-15 (N=15)	A-10 (N=16)	B-10 (N=14)
TRAE, n (%)	45 (100.0)	15 (100.0)	16 (100.0)	14 (100.0)
Grade ≥3 TRAE, n (%)	27 (60.0)	9 (60.0)	7 (43.8)	11 (78.6)
TRSAE, n (%)	20 (44.4)	7 (46.7)	4 (25.0)	9 (64.3)
AK104 related TRSAE, n (%)	17 (37.8)	7 (46.7)	4 (25.0)	6 (42.9)
irAE, n (%)	25 (55.6)	10 (66.7)	8 (50.0)	7 (50.0)
Grade ≥3 irAE, n (%)	7 (15.6)	4 (26.7)	1 (6.3)	2 (14.3)
TRAE leading to treatment discontinuation, n (%)	6 (13.3)	3 (20.0)	0	3 (21.4)
TRAE leading to death, n (%)	1 (2.2) <sup>a</sup>	0	0	1 (7.1)

Data cutoff date: 18 Apr 2022.

<sup>a</sup>One death due to hemorrhagic shock occurred in cohort B-10 and was judged as Bevacizumab-related.



# TRAE

## Related to any treatment, Incidence $\geq 20\%$

PT Term, n (%)	Total (N=45)		A-15 (N=15)		A-10 (N=16)		B-10 (N=14)	
	All Grade	Grade 3-4	All Grade	Grade 3-4	All Grade	Grade 3-4	All Grade	Grade 3-4
<b>Subjects with at least one TRAE</b>	<b>45 (100.0)</b>	<b>27 (60.0)</b>	<b>15 (100.0)</b>	<b>9 (60.0)</b>	<b>16 (100.0)</b>	<b>7 (43.8)</b>	<b>14 (100.0)</b>	<b>11 (78.6)</b>
<b>Anaemia</b>	<b>30 (66.7)</b>	<b>9 (20.0)</b>	11 (73.3)	<b>5 (33.3)</b>	10 (62.5)	<b>2 (12.5)</b>	9 (64.3)	<b>2 (14.3)</b>
<b>White blood cell count decreased</b>	<b>26 (57.8)</b>	<b>5 (11.1)</b>	10 (66.7)	0	10 (62.5)	<b>3 (18.8)</b>	6 (42.9)	<b>2 (14.3)</b>
<b>Neutrophil count decreased</b>	<b>13 (28.9)</b>	<b>6 (13.3)</b>	4 (26.7)	1 (6.7)	5 (31.3)	<b>2 (12.5)</b>	4 (28.6)	<b>3 (21.4)</b>
<b>Hypoaesthesia</b>	<b>13 (28.9)</b>	0	3 (20.0)	0	5 (31.3)	0	5 (35.7)	0
<b>Decreased appetite</b>	<b>12 (26.7)</b>	0	4 (26.7)	0	4 (25.0)	0	4 (28.6)	0
<b>Rash</b>	<b>12 (26.7)</b>	2 (4.4)	4 (26.7)	1 (6.7)	4 (25.0)	1 (6.3)	4 (28.6)	0
<b>Vomiting</b>	<b>11 (24.4)</b>	0	2 (13.3)	0	5 (31.3)	0	4 (28.6)	0
<b>Platelet count decreased</b>	<b>10 (22.2)</b>	<b>5 (11.1)</b>	4 (26.7)	<b>3 (20.0)</b>	2 (12.5)	1 (6.3)	4 (28.6)	1 (7.1)
<b>Hepatic function abnormal</b>	<b>10 (22.2)</b>	1 (2.2)	4 (26.7)	1 (6.7)	2 (12.5)	0	4 (28.6)	0
<b>Pain in extremity</b>	<b>9 (20.0)</b>	0	3 (20.0)	0	5 (31.3)	0	1 (7.1)	0

Data cutoff date: 18 Apr 2022.



# irAE

## Incidence $\geq 2$ subjects

PT Term, n (%)	Total (N=45)		A-15 (N=15)		A-10 (N=16)		B-10 (N=14)	
	All Grade	Grade 3-4	All Grade	Grade 3-4	All Grade	Grade 3-4	All Grade	Grade 3-4
Subjects with at least one irAE	25(55.6)	7 (15.6)	10 (66.7)	4 (26.7)	8 (50.0)	1 (6.3)	7 (50.0)	2 (14.3)
Alanine aminotransferase increased	5 (11.1)	0	4 (26.7)	0	1 (6.3)	0	0	0
Rash	5 (11.1)	2 (4.4)	2 (13.3)	1 (6.7)	2 (12.5)	1 (6.3)	1 (7.1)	0
Hypothyroidism	5 (11.1)	0	1 (6.7)	0	3 (18.8)	0	1 (7.1)	0
Hyperthyroidism	4 (8.9)	0	1 (6.7)	0	2 (12.5)	0	1 (7.1)	0
Infusion related reaction	4 (8.9)	0	2 (13.3)	0	1 (6.3)	0	1 (7.1)	0
Aspartate aminotransferase increased	3 (6.7)	0	2 (13.3)	0	1 (6.3)	0	0	0
Hepatic function abnormal	3 (6.7)	0	2 (13.3)	0	1 (6.3)	0	0	0
Amylase increased	2 (4.4)	0	0	0	0	0	2 (14.3)	0

Data cutoff date: 18 Apr 2022.

# Conclusion

- No new safety signals were observed in our study. AK104 in combination with platinum-based chemotherapy+/-bevacizumab was well tolerated.
- AK104 in combination with platinum-based chemotherapy+/-bevacizumab showed promising antitumor activity, regardless of CPS status.
  - ORR were 66.7%, 68.8% and 92.3% in A-15, A-10 and B-10, respectively
  - DCR were 100%, 93.8% and 100% in A-15, A-10 and B-10, respectively
- PFS or OS data is not mature by cut-off date.
- A phase III trial is ongoing to evaluate the efficacy and safety of AK104 plus platinum-based chemotherapy+/-bevacizumab in first-line treatment for R/M cervical cancer(NCT04982237).